

Patent
82478-5100

IN THE CLAIMS:

1.-7. (Cancelled)

8. (Original) A compact self-ballasted fluorescent lamp, comprising:

an arc tube formed by a glass tube double-spirally wound from a middle to both
5 ends thereof around a predetermined axis; and

a cylindrical holding member having an end wall on which a pair of tube-holding
structures are provided for holding the arc tube in a state where both end parts of the glass tube
are inserted in and held by the tube-holding structures,

wherein a pitch of (a) each end part and (b) an adjacent spiral part in a direction of
10 the axis is larger than a pitch of other adjacent spiral parts, to widen a gap between each end part
and the adjacent spiral part, and

a distance between (a) a first point that is at a middle of an area sandwiched
between the pair of tube-holding structures in a circumferential direction of the end wall as
viewed in the direction of the axis and (b) a second point that is on an outer surface of a spiral
15 part positioned outward with respect to the holding member and facing the first point, is in a
range of 1.5 to 4.0 mm inclusive.

9. (Original) The compact self-ballasted fluorescent lamp of Claim 8, wherein:

a winding pitch of the glass tube is changed to enlarge at such a position back
from each end by 60 to 120 inclusive with respect to the axis, as viewed in the direction of the
20 axis.

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10. (Original) The compact self-ballasted fluorescent lamp of Claim 8, wherein
a gap between the other adjacent spiral parts is in a range of 1 to 3 mm inclusive,
and

a distance between (a) a first point that is on each end and (b) a second point that
5 faces the first point and that is on an outer surface of an adjacent spiral part in the direction of the
axis, is in a range of 3 to 6 mm inclusive.

11. (Original) The compact self-ballasted fluorescent lamp of Claim 8, further
comprising

a case that is fit to cover a circumferential wall of the holding member,
10 wherein the holding member has, at the circumferential wall, an engagement part
that is engaged at an inner surface of the case, the engagement part being at such a position
corresponding to the middle of the area sandwiched between the pair of tube-holding structures.

12. (Original) The compact self-ballasted fluorescent lamp of Claim 8, further
comprising

15 a globe covering the arc tube; and
a case that is fit to cover a circumferential wall of the holding member,
wherein a gap is formed between the circumferential wall of the holding member
and the case, and the globe is fixed in a state where an opening end thereof is fit in the gap.

13. (Original) The compact self-ballasted fluorescent lamp of Claim 12, wherein
20 the arc tube is thermally connected to the globe via a heat conductive medium, at
a coolest position of the arc tube during lighting, or a position in a vicinity of the coolest
position.

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14. (Original) The compact self-ballasted fluorescent lamp of Claim 8, wherein
an inner diameter of the glass tube is in a range of 5 to 9 mm inclusive.
15. (Original) The compact self-ballasted fluorescent lamp of Claim 8, wherein
an annular outer diameter of the double-spiral arc tube is in a range of 30 to 40
5 mm inclusive.

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